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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/025,856	02/19/1998	TOSHIYUKI SUDO	862.2176	1080

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[REDACTED] EXAMINER

WONG, ALLEN C

ART UNIT	PAPER NUMBER
2613	27

DATE MAILED: 07/29/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/025,856	SUDO, TOSHIYUKI
	Examiner Allen Wong	Art Unit 2613

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 2/11/03.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.
- 4) Claim(s) 1,3-11,15-27 and 31-44 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1,3-11,15-27 and 31-44 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>23</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/11/03 has been entered.

Response to Arguments

1. Applicant's arguments filed 2/11/03 have been fully considered but they are not persuasive.

Regarding applicant's remarks on page 15, lines 17-19, applicant states that Isono does not disclose "changing the display state of the window when it is determined that the positional relationship is not proper". The examiner respectfully disagrees. The changing of the display state of the window is disclosed on Isono's column 4, lines 37-40 where Isono teaches the position and size of the window is changeable. The changing of the window size is considered to be a changing of the display state because when the window is enlarged or shrunk, then it is considered to change the view of display or the change of the display state. Isono teaches the computer (Figure 1, element 20) is the means for determining whether the positional relationship is proper or not proper, and that the computer 20 can control the image data processor for controlling the driver elements 42, 44, 22, 24 and 57 for adjusting the positional

relationship, as disclosed in col.6, ln.51 to col.7, ln.23. Thus, Isono's element 20 determines that if the positional relationship is not proper, then the display state of the window is changed.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 3-11, 15-27 and 31-44 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Isono (5,315,377).

Regarding claims 1, 12, 14-16, 18, 28-32, and 34-44, Isono discloses an information processing apparatus which can be connected to an image display apparatus having a first display means (fig.2, element 46), second display means (fig.2, element 28) and having stereoscopic vision control means, said stereoscopic vision control means displays a parallax barrier pattern on said second display means to allow an observer to observe stripe images of a stereoscopic image with right and left eyes, displayed on said first display means (see fig.2 and col.9, ln.3-30, note the display has the ability to permit the viewer to observe stripe images VP₁ and VP₂ of the stereoscopic image with the right and left eyes, elements 2a and 2b, where VP₁ relates to the train of image elements R1, R2, R3... and VP₂ relates to the train of image elements L1, L2, L3...), respectively, said information processing apparatus comprising:

generation means (col.4, ln.32-38) for generating image data including a window to be located on a desired position of said first display means (col.4, lines 38-40; note a window is set, thus the window position and size can be "freely changed" for displaying the stereoscopic image) in which stripe parallax images corresponding to the right and left eyes are arranged so as to display a stereoscopic image (see fig.2);

determination (changing) means (figure 1, element 20 and col. 5, lines 37-40) for determining whether a relative positional relationship between the stereoscopic image displayed in the window generated by said generation means and the parallax barrier pattern displayed on said second display means by said stereoscopic vision control means of said image display apparatus is a proper positional relationship which allows a proper stereoscopic vision (col. 5, lines 37-40, note that a computer determines whether a relative positional relationship between the window and said stereoscopic vision control means of said image display apparatus is a proper positional relationship, where also the user can input commands at element 6); and

adjustment (changing) means for (figure 1, element 20 and col. 5, lines 37-40), when said determination means determines that the positional relationship is not proper, adjusting the relative positional relationship to allow a proper stereoscopic vision by changing the display state of said window (col. 5, lines 37-40; note that a computer adjusts the relative positional relationship to allow a proper stereoscopic vision by changing of the state of window display with the various display control commands, where also the user can input commands at element 6; also, col.4, lines 38-40; note a window is set, thus the window position and size, ie. the display state, can be "freely

changed" for displaying the stereoscopic image; plus, computer 20 can control the image data processor for controlling the driver elements 42, 44, 22, 24 and 57 for adjusting the positional relationship, as disclosed in col.6, ln.51 to col.7, ln.23).

Regarding claims 3, 4, 7, 8, 19, 20, 23, and 24, Isono discloses that changing means moves the window by a distance corresponding to a stripe pitch of the stripe image and that the amount of movement of the window is equal to a minimum pixel pitch of said stereoscopic image display (col. 4, lines 39-57, note that Isono discusses a "variable pitch" which means that the pitch can be adjusted to accommodate one's needs).

Regarding claims 5, 9, 21, and 25, Isono discloses a horizontal stripe image (figure 5, element 28A and 46A) in the screen.

Regarding claims 6, 10, 22, and 26, Isono discloses a vertical stripe image (figure 5, element 28B and 46B) in the screen.

Regarding claims 11 and 27, Isono discloses that said changing means interchanges odd and even stripe images (figure 5, element 56') constituting the stereoscopic image displayed in the window.

Regarding claim 13, Isono discloses that said changing means physically moves said stereoscopic vision control means (col. 7, lines 9-24).

Regarding claims 17 and 33, it is inherent that the execution period of said changing means is shortened, while the window is moved, for the changing means to execute the executed commands in an efficient manner.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen Wong whose telephone number is (703) 306-5978. The examiner can normally be reached on Mondays to Thursdays from 8am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Kelley can be reached on (703) 305-4856. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Allen Wong
Examiner
Art Unit 2613

AW
July 22, 2003


CHRIS KELLEY
SUPERVISORY PATENT EXAMINER
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